- □ ACCURACY OF 0.1%
- ☐ AC CURRENT INPUT
- ☐ AC VOLTAGE INPUT
- □ COMPLETE ISOLATION
- ☐ LOW COST
- ☐ 3-YEAR WARRANTY



The ACT-4I and ACT-4V isolated four-wire transmitters accept ac current voltage input signals and generate a proportional 4-20mA process output current.

Accurate full-wave squaring circuitry is applied for true conversion of the ac input signal into an accurate isolated output.

For complete safety, internal transformers isolate the input and enable the ACT-4I and the ACT-4V to withstand large momentary input signals.

Complete input to output isolation, high surge current capacity and high output signal to noise ratio, make the Series 4 highly immune to ground loop signals and RFI.

Wide input current ranges are obtained by means of changing one resistor for coarse range setting. This resistor is located behind the unit cover.

Fine tuning is achieved via the "Zero" and "Span" front panel accessible multi-turn potentiometers.

The ACT-4 units can be ordered to be powered either by 220/110 Vac or by 22 - 66 Vdc.

The ACT-4 transmitters are housed in a polycarbonate plastic enclosure mounted on a standard DIN rail side by side, with no wasted space in high density installations.



# **SPECIFICATIONS** -

# - ACT-41 / ACT-4V

ACT-41

INPUT: AC current

INPUT SPAN: 1 to 10 Aac (RMS)

INPUT BURDEN: 0.26 VA at 5 Aac input

INRUSH CURRENT:

40 Aac (RMS) maximum for 8 seconds 75 Aac (RMS) maximum for 1 second

every 10 minutes.

ISOLATION:

Current input: 2.5KV RMS/1 minute Power input: 4KV RMS/1 minute

WEIGHT: 0.35 Kg

ACT-4V

**INPUT**: AC Voltage

INPUT SPAN (factory set):

80 to 420 Vac RMS)

INPUT BURDEN: 1.4 VA at 230 Vac input

0.3 VA at 120 Vac

ISOLATION:

Signal and power inputs: 4KV RMS/1 minute

WEIGHT: 0.4 Kg

**OUTPUT:** DC current

**CURRENT RANGE:** 

4-20 mA (partial ranges available)

28 mA (limited)

SUPPLY VOLTAGE: DC or AC versions

DC SUPPLY: 22-66 Vdc

DC CURRENT DRAW: 26 mA at 20 mA output

AC SUPPLY (factory set): 115/230 ±15% Vac

**POWER CONSUMPTION: 1.9 VA** 

SUPPLY AND LOAD VARIATION EFFECT:

< ±0.03% of span for full range

LOAD RESISTANCE:

 $750\Omega$  for nominal AC supply  $600\Omega$  for minimum AC supply  $R{=}(Vsup{-}14)/0.02$  limited to  $700\Omega$ 

RESPONSETIME: 220 msec (0-98%)

OUTPUT RIPPLE: Better than ±0.1% of span (RMS)

ACCURACY (2-100% of input span):

±0.1% of span for pure sinusoidal input

FREQUENCY: 40 - 500 Hz

ADJUSTABILITY:

Zero: ±35% of span (minimum) Span: ±25% of span (minimum)

CMR: 122 dB typical 117 dB minimum

TEMPERATURE STABILITY: ±0.015% of span /1°K

OPERATION TEMPERATURE:

-20 to 70°C standard. Option: -30 to +85°C Storage: -40 to +90°C

HUMIDITY: 5-95% relative, non condensed

HOUSING:

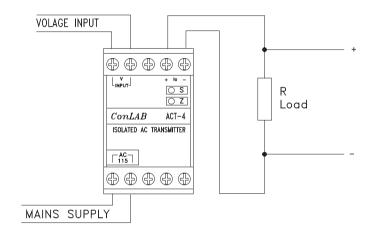
Plastic polycarbonate Box: According to IP-40 Terminals: According to IP-20

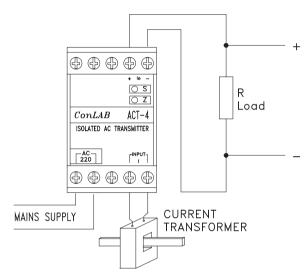
MOUNTING: Standard 35 mm DIN rail



### **CONNECTION DIAGRAM**

### **CONNECTION DIAGRAM**





### ORDERING INFORMATION

# ACT-4-I-5-0-5-3-2-S Product Type I- Current / V- Voltage Max Input Range Min Output Current Max Output Current Input Freq. 1-50, 2-60, 3-400 Hz Supply (1- 110Vac, 2-220 Vav, 3-DC) S - -20 to 70 C / E - -30 to 80 C

## DIMENSIONS(mm)

